WE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Frost et al

Attorney Docket No: BIOL0017

Serial No:

09/976,237

Group Art Unit: 2877

Filed:

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October, 12, 2001

Examiner:

Title:

METHOD AND APPARATUS FOR READING REPORTER LABELED BEADS

REQUEST FOR CORRECTED FILING RECEIPT

Bellevue, Washington 98004 June 25, 2002

TO THE DIRECTOR OF THE PATENT AND TRADEMARK OFFICE:

Attn

Director of the Patent and Trademark Office

Office of Initial Patent Examination

Customer Service Center Arlington, VA 22202

An updated filing receipt issued in connection with the above-identified patent application contains an error respective to priority applications. A copy of the filing receipt, a copy of the application transmittal letter (dated October 12, 2001), and a copy of page 1 of the application are enclosed. Correction is hereby requested.

Both the application transmittal letter and page 1 of the patent application include the proper priority claim for this matter. Please correct the priority data for this application to include the conventional application Serial No. --09/939,292 filed August 24, 2001--.

Respectfully submitted,

Ronald M. Anderson

Registration No. 28,829

I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid addressed to: Director of the Patent and Trademark Office, Arlington, VA 22202, on June 25, 2002

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Date: June 25, 2002







COMMISSIONER FOR PATENTS UNITED STATES PATENT AND TRADEMARK OFFICE WASHINGTON, D.C. 20231 www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/976,237	10/12/2001	2877	435	BIOL0017	28	1	1

CONFIRMATION NO. 9706

UPDATED FILING RECEIPT

OC000000007530430

25268 LAW OFFICES OF RONALD M ANDERSON 600 108TH AVE, NE SUITE 507 BELLEVUE, WA 98004

Date Mailed: 02/25/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Keith L. Frost, Seattle, WA; David A. Basiji, Seattle, WA; Richard A. Bauer, Kirkland, WA; Rosalynde J. Finch, Seattle, WA; William E. Ortyn, Bainbridge Island, WA; David J. Perry, Woodinville, WA;

Assignment For Published Patent Application

Amnis Corporation;

Domestic Priority data as claimed by applicant

THIS APPLN CLAIMS BENEFIT OF 60/240,125 10/12/2000 AND CLAIMS BENEFIT OF 60/242,734 10/23/2000 AND CLAIMS BENEFIT OF 60/228,076 08/25/2000

Foreign Applications

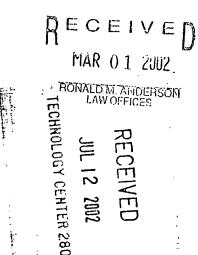
If Required, Foreign Filing License Granted 11/19/2001

Projected Publication Date: 06/06/2002

Non-Publication Request: No

Early Publication Request: No





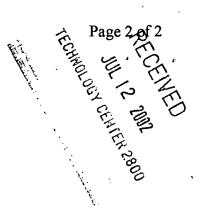


Title

Method and apparatus for reading reporter labeled beads

Preliminary Class

356



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Approved for use through 9/30/2000. OMB 0651-2002 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION AND FEE TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b)) INCOMPLETE

Attorney Docket No. BIOL0017 Date: October 12, 2001

Inventor(s): Title		id A. Basiji, Richard A. Bauer, Rosalynde J. I PPARATUS FOR READING REPORTER I	
	FIRST NAMED INVENTOR:_		COUNTRY OF CITIZENSHIP: US
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	SIXTH NAMED INVENTOR:_ DRESS OF INVENTOR:	David J. Perry 24017 107th Drive SE, Woodinville, Wash	COUNTRY OF CITIZENSHIP: US nington 98072
APPLICATION E See MPEP chapter 6	ELEMENTS 600 concerning utility patent applications	ADDRESS TO:	Assistant Commissioner for Patents Box Patent Application Washington, DC 20231
3. X Spec 4. X Draw 5. Oath a. New b. Copy ii. DEL 6. Appli 7. CD-F 8. Nucle a. Nucle a. Spec ACCOMPAN 0. Assig 10. 37 C 11. Engli 12. Inforr	cification ving(s) (35 U.S.C. 113) or Declaration ving(s) (35 U.S.C. 113) or Declaration ving executed (original or copy) vinom a prior application (37 vince) ETION OF INVENTOR(S) Cation Data Sheet. See 37 composition of the composition of t	C.F.R. § 1.63(d)) (for continuation/divisional with Box 17 comple bigned statement attached deleting inventor(s) named in the price C.F.R. § 1.76 arge table or Computer Program (Appendix) quence Submission (if applicable, all necessary) CRF) ing on:i. CD-ROM or CD-R (2 copies); ori. Paper of above copies PARTS & document(s)) nen there is an assignee)Power of Attomey	PECEIVED TECHNOLOGY CENTER 2 TECHNOLOGY CENTER 2
4. X Retur	n Receipt Postcard (MPEP tied Copy of Priority Documer PUBLICATION REQUEST:	503) (Should be itemized specifically) nt(s) (if foreign priority is claimed) Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). A	pplicant must attach form PTO/SB/35 or its equivalent.
8. If a COI Continu	NTINUING APPLICATION, ationDivisional	check appropriate box, and supply the requisite information belo Continuation-in-part (CIP)of prior application No	ow and in a preliminary amendment:
rior application i	nformation: Evaminer	Group / Art I Inite	

This application is based on prior copending provisional application Serial No. 60/240,125, filed on October 12, 2000, and prior copending provisional application Serial No. 60/242,734, filed on October 23, 2000, the benefits of the filing dates of which are hereby claimed under 35 U.S.C. § 119(e). This application is further based on prior copending conventional application No. 09/939,292, filed on August 24, 2001, which is based on a prior copending provisional application Serial No. 60/228,076, filed on August 25, 2000, the benefits of the filing dates of which are hereby claimed under 35 U.S.C. § 119(e). and under 35 U.S.C. § 120.

For CONTINUATION OR DIVISIONAL APPLICATIONS only: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 5b, is considered to be part of the disclosure of the accompanying application and is hereby incorporated by reference therein. This incorporation <u>can only</u> be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

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Telephone: 425-688-8816

Facsimile: 425-646-6314

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METHOD OF PAYMENT (check one)				FEE CALCULATION (continued)			
The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:				3. ADDITIONAL FEES (Continued)	00		
Deposit Account	Number	· · · · · ·		Fee Description	Fee Paid		
Deposit Account			_	Requesting publication of SIR after Examiner action			
Charge Any Additional Fee Required Under 37 CFR 1.16 & 1.17			1.16 & 1.17				
Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance				Extension for reply within first month			
	t Enclosed:		0.1	Extension for reply within second month			
Check (No) Money OrderOther Payment NOT Enclosed				Extension for reply within third month			
2	FEE CALCULAT	TION		Extension for reply within fourth month			
1. BASIC FIL	ING FEE			Extension for reply within fifth month			
•				Notice of Appeal	-		
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	Utility filing fee	\$3	70	Request for oral hearing			
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	Plant filing fee			Petition to revive - unavoidable			
	Reissue filing fe	e 🗀		Petition to revive - unintentional			
	Provisional filing	g fee		Utility issue fee (or reissue)			
SUBTOTAL (1) \$		Design issue fee					
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Total Claims	-20 = x	\$18/9 =	\$	Petitions related to provisional applications			
Independent Claims	-3 = x	\$84/42 =	\$	Submission of Information Disclosure Statement			
Multiple Dependent	-0- x	\$280/140 =	\$	Recording each patent assignment per property (times number of properties)			
SUBTOTAL	L (2)	\$		Submission after final rejection (37 C.F.R. 1.129(a))			
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3. ADDITION		- · · · · · · · · · · · · · · · · · · ·		Other fee (specify)	-		
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Typed/Printed Name Ronald M. Anderson				Registration Number: 28,829			
Signature Date: October 12, 2001							
EXPRESS MAIL CERTIFICATE							
Express Mail Label No. EL744182283US Date of Deposit: October 12, 2001							
I hereby certify that date indicated abo		sited with the Uni	ed States Postal	Service "Express Mail Post Office to Addressee" service under 37 C.F.	R. § 1.10 on the		

(Signature of person hailing paper or fee)
PAGE 2 OF 2

Kathy L. Paulino
(Name of person mailing paper/fee)



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METHOD AND APPARATUS FOR READING REPORTER LABELED BEADS

Related Applications

This application is based on prior copending provisional application Serial No. 60/240,125, filed on October 12, 2000, and prior copending provisional application Serial No. 60/242,734, filed on October 23, 2000, the benefits of the filing dates of which are hereby claimed under 35 U.S.C. § 119(e). This application is further based on prior copending conventional application No. 09/939,292, filed on August 24, 2001, which is based on a prior copending provisional application Serial No. 60/228,076, filed on August 25, 2000, the benefits of the filing dates of which are hereby claimed under 35 U.S.C. § 119(e). and under 35 U.S.C. § 120.

Field of the Invention

The present invention generally relates to a method and apparatus employed to image an encoded reporter labeled bead, and more specifically, to a method and apparatus that enable encoded reporter labeled beads to be imaged in stasis or when entrained in a flow of fluid, such that imaging data thus obtained can be employed to decode each encoded bead by determining the identity of reporters bound to that bead.

Background of the Invention

Single nucleotide polymorphisms (SNPs) are locations in the genome where a single base substitution has occurred. SNPs are estimated to occur in the human genome at a frequency of approximately 1:1000, implying that there are three million

SNPs in the three billion nucleotide human genome. Since most known gene sequences are on the order of 1,000 base pairs in length, each gene is expected to contain one SNP. It is estimated that there are 100,000 human genes, meaning that there are 100,000 SNPs, which may directly affect the function and/or expression of the resulting proteins.

The relative abundance of SNPs in the genome has stimulated efforts to quantify the location and frequency of occurrence of single base substitutions as a tool for the analysis of gene function. Methods for the detection of SNPs include the oligonucleotide ligation assay (OLA), single-strand conformation polymorphism